Exercise - I (Conceptual Questions) Build Up Your Understanding

NON-CHORDATES

1. In which of the following nuclear dimorphism is seen?
(1) *Entamoeba* (2) *Leishmania*
(3) *Trypanosoma* (4) *Paramoecium*

2. Slipper animalcule is -
(1) *Entamoeba* (2) *Paramoecium*
(3) *Giardia* (4) *Euglena*

3. Vaginitis or Leucorrhoe disease in female is caused by -
(1) *Trichomonas* (2) *Trichonympha*
(3) *Trypanosoma* (4) *Giardia*

4. Which group of organisms belongs to class sporozoa?
(1) *Plasmodium & Monocystis*
(2) *Entamoeba & Paramoecium*
(3) *Euglena & Trypanosoma*
(4) *Plasmodium & Vorticella*

5. If a food particle is placed near the osculum of a sponge then it will -
(1) Be thrown away (2) Be ingested
(3) Rotate around osculum
(4) Be ingested first and then thrown out through ostia

6. Bath sponge is common name of -
(1) *Spongilla* (2) *Euspongia*
(3) *Euplectella* (4) *Leucosolenia*

7. Which one of the following is Coelentrate -
(1) Sea urchin (2) Sea cucumber
(3) Sea fan (4) Sea horse

8. Which animal do not possess larval stage in its life cycle?
(1) *Ascaris* (2) Frog
(3) *Taenia* (4) *Pheretima*

9. Which of the following is an Annelid?
(1) sea horse (2) sea mouse
(3) sea hare (4) sea pen

10. *Taenia solium* has -
(1) Mouth and anus both
(2) Only mouth present but no anus
(3) Only anus present but no mouth
(4) Complete digestive tract is absent

11. Which of the following characteristic is shared by all arthropods?
(1) Complete metamorphosis
(2) Wings
(3) Jointed appendages
(4) Tracheal system

12. Members of phylum Arthropoda lack one of the following feature :-
(1) External skeleton made of chitin
(2) Compound eyes
(3) Excretion by malphigian tubules
(4) Usually a close type of blood vascular system

13. Cockroach, house fly and mosquitoes are insect because they have :-
(1) Chitinous exoskeleton and body divided into head and cephalothorax
(2) Six legs, compound eyes and body divided into head, thorax and abdomen
(3) Segmented body with jointed feet and chitinous exoskeleton
(4) Three pairs of legs, one pair of antennae and flame cells

14. Which of the following animal is considered as "Living fossil"?
(1) *Limulus* (2) Spider
(3) *Eupagurus* (4) Scorpion

15. Select the economically important insect :-
(1) *Locusta* (2) *Culex*
(3) *Aedes* (4) *Apis*

16. Which animal has visceral hump ?
(1) *Culex* (2) *Apis*
(3) *Nereis* (4) *Pila*

17. Which mollusca is called tusk shell?
(1) *Neopilina* (2) *Pila*
(3) *Dentalium* (4) *Doris*

18. Secretion of shell in molluscs take place by:-
(1) Foot (2) Ink gland
(3) Radula (4) Mantle

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19. Which of the following characteristic is not of phylum mollusca?
(1) Soft body covered usually by a shell
(2) Segmented body
(3) Triploblastic
(4) Presence of coelom

20. The most characteristic feature of molluscs is the presence of :-
(1) Hard - body (2) Shell
(3) Mantle (4) Foot

21. Open type of blood vascular system and presence of haemocyanin pigment are the characters of :-
(1) Mollusca (2) Annelida
(3) Echinodermata (4) Hemichordata

22. Member of Echinodermata has a specific system, which is not found in other phylum, it is :-
(1) Canal system
(2) Water vascular system
(3) Respiratory system
(4) Jointed appendages

23. Segmentation of body is not represented in:-
(1) Cray - fish (2) *Sepia*
(3) Grass hopper (4) Silver fish

24. Aristotle lantern is found in :-
(1) Sea - urchin (2) *Sepia*
(3) Star fish (4) *Obelia*

25. Which of the following is not related with Echinodermata ?
(1) Madreporite (2) Parapodia
(3) Marine habitat (4) Autotomy

26. Locomotory organs of echinoderms are :-
(1) Tube feet (2) Setae
(3) Parapodia (4) Pseudopodia

27. Absence of excretory organs, great power of regeneration and exclusively marine animals belongs to the phylum :-
(1) Mollusca (2) Arthropoda
(3) Echinodermata (4) Annelida

28. Stomochord (Buccal diverticulum) is present in:
(1) *Amphioxus* (2) *Herdmania*
(3) *Balanoglossus* (4) *Asterias*

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29. Which of the following character does not belong to Arthropoda?
(1) Closed circulatory system
(2) Movable jaws
(3) Segmented body
(4) Jointed legs

30. Chiton is included in phylum
(1) Annelida (2) Arthropoda
(3) Mollusca (4) Echinodermata

31. Coxal glands are the excretory organ of :-
(1) Cray fish (2) Devil fish
(3) Jelly - fish (4) Scorpion

32. Most of the adult insects have six legs and:-
(1) Two antennae and four wings
(2) Four antennae and four wings
(3) Two antennae and two or four wings
(4) Four wings and four eyes

33. The first flying animals on earth were :-
(1) Insects (2) Birds
(3) Reptiles (4) Mammals

34. Chemoreceptor in *Pila* is ?
(1) Ctenidium (2) Radula
(3) Osphradium (4) Statocyst

35. In *Hydra*, waste material of food digestion and nitrogenous waste material removed respectively from :-
(1) Mouth and mouth
(2) Body wall and body wall
(3) Mouth and body wall
(4) Mouth and tentacles

36. Given below are four matchings of an animal and its kind of respiratory organ :
A. Silver fish – Trachea
B. Scorpion – Book lung
C. Sea squirt – Pharyngeal gills
D. Dolphin – Skin
The correct matchings are :-
(1) A and D (2) A, B and C
(3) B and D (4) C and D

37. In contrast to Annelids the Platyhelminths show –
(1) Absence of body cavity
(2) Presence of pseudocoel
(3) Radial symmetry
(4) Bilateral symmetry

38. Which one of the following is not correctly matched?
(1) *Culex* – Filariasis
(2) *Aedes* – Yellow fever
(3) *Anopheles* – Leishmaniasis
(4) *Glossina* – Sleeping sickness

39. The canal system is characteristic feature of-
(1) Sponges (2) Helminthes
(3) Echinoderms (4) Coelenterates

40. Contractile vacuole of *Amoeba* is analogous to:
(1) Typhlosole of earthworm
(2) Sweat gland of human
(3) Uriniferous tubules of frog and man
(4) Gastrovascular cavity of *Hydra*

41. Which of the following is pseudoceolomate?
(1) *Hydra* (2) *Periplaneta*
(3) *Ascaris* (4) *Pheretima*

42. Which of the following group is Duterostome?
(1) Annelida, Arthropoda, Mollusca
(2) Echinodermata, Hemichordata, Chordata
(3) Annelida, Mollusca, Chordata
(4) Arthropoda, Mollusca, Echinodermata

43. Intermediate host of *Schistosoma* is :-
(1) Snail (2) Mosquito
(3) Housefly (4) Lion

44. *Sycon* belongs to a group of animals, which are best described as :-
(1) Unicellular or acellular
(2) Multicellular without any tissue organization
(3) Multicellular with a gastrovascular system
(4) Multicellular having tissue organization, but no body cavity

45. Which one of the following phyla is correctly matched with its general characteristics ?
(1) Porifera - Cellular level of organisation and external fertilisation
(2) Coelenterata - Diploblastic and mostly Asymmetric
(3) Aschelminthes - Pseudocoelomates and dioecious
(4) Hemichordata - Coelomates and closed circulatory system

46. Which one is monogenetic parasite ?
(1) *Trypanosoma* (2) *Plasmodium*
(3) *Entamoeba* (4) Liver fluke

47. Which one of the following is a matching pair of a body feature and the animal possessing it?
(1) Canal system - *Asterias*
(2) Metagenesis - *Obelia*
(3) Dorsal nerve cord - *Pheretima*
(4) Muscular pharynx - *Taenia*

48. One of the following animals is not hermaphrodite-
(1) Earthworm (2) Leech
(3) Taenia (4) Ascaris

49. In Annelids formation of larva is usually absent but when present the larva is called:
(1) Tadpole (2) Planula
(3) Trochophore (4) Ephyra

50. Excretion in most Annelids take place by -
(1) Kidneys (2) Flame cells
(3) Nephridia (4) Ciliated funnel

51. Larval form of *Fasciola hepatica* which entres in snail is -
(1) Metacercaria (2) Miracidium
(3) Cysticercus (4) Cercaria

52. True coelom appeared first during the course of evolution in :-
(1) Echinodermata (2) Annelida
(3) Chordata (4) Protozoa

53. Rhabditiform larva occurs in :
(1) *Neries* (2) *Ascaris*
(3) *Taenia* (4) *Fasciola*

54. Sea-anemone belongs to phylum -
(1) Protozoa (2) Porifera
(3) Coelenterata (4) Echinodermata

55. Syncytial epidermis is associated with :
(1) *Hydra* (2) Star fish
(3) Earthworm (4) *Ascaris*

56. Ink glands are found in :
(1) Sponge (2) Star fish
(3) *Sepia* (4) Jelly fish

57. Cephalopod with closed circulatory system is:
(1) *Pila* (2) *Chiton*
(3) *Unio* (4) *Octopus*

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58. A sponge harmful to oyster industry is
(1) *Spongilla* (2) *Euspongia*
(3) *Hyalonema* (4) *Cliona*

59. Haemoglobin is dissolved in blood plasma of-
(1) Frog (2) Rabbit
(3) Cockroach (4) Earthworm

60. Skeleton is made up of.....in porifera.
(1) Spicules (2) Spongin
(3) Both 1 and 2 (3) Chitin

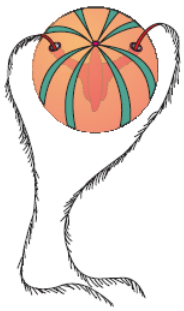
61. Find the odd
(1) Sea fan (2) sea horse
(3) sea cucumber (4) sea lily

62. Which animal has only cylindrical form?
(1) Physalia (2) Admsia
(3) Hydra (4) (2) and (3)

63. Which animal is umbrella-shaped and free swiming?
(1) Aurelia (2) Jelly-fish
(3) Hydra (4) (1) and (2)

64. Corals have a skeleton composed of.....
(1) $CaCO_3$ (2) $CaPO_4$
(3) $CaCl_2$ (4) $CaSiO_2$

65. Identify the animal shown in diagram
(1) Tape worm
(2) Pleurobrachia
(3) Neris
(4) Octopus



CHORDATES

66. Choose the correct combination of the given option?
(1) *Calotes* - garden lizard
(2) *Chameleon* - krait
(3) *Naja* - viper
(4) *Crocodilus* - tortoise

67. Which one of the following mammalia live in water?
(1) Bat (2) Platypus
(3) *Macropus* (4) Blue whale

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68. The distinguishing feature of all chordates is:-
(1) A ventrally placed nerve cord
(2) A water vascular system
(3) A chitinous exoskeleton
(4) An elastic rod (Notochord)

69. Chordates possess :-
(1) Dorsal nerve cord placed below gut
(2) Single hollow nerve cord placed dorsal to gut
(3) Double ventral nerve cord
(4) Single, solid and ventral nerve cord

70. In vertebrates the notochord :-
(1) Persists throughout the life
(2) Is partially replaced by vertebral column
(3) Is completely replaced by vertebral column
(4) Is partially or fully replaced by vertebral column

71. Which one is the distinguishing feature of all vertebrates?
(1) An internal bony or cartilagenous skeleton
(2) A hairy body covering
(3) Presence of mammary glands
(4) Open type of circulatory system

72. The three living Lung fishes namely *Protopterus*, *Lepidosiren* and *Neoceratodus* are respectively distributed in which countries of the world :-
(1) Africa, South America and Australia
(2) Africa, Australia and Japan
(3) India, Africa and South America
(4) South America, England & Africa

73. Which fish is known as living fossil?
(1) *Chimaera* (2) *Latimaria*
(3) *Pristis* (4) *Harpodon*

74. Which of the following fins are paired in fishes?
(1) Dorsal fin (2) Anal fin
(3) Pelvic fin (4) Ventral fin

75. Fish change its direction suddenly by :-
(1) Pectoral fin (2) Pelvic fin
(3) Caudal fin (4) All the above

76. Which one of the following amphibia is common toad?
(1) *Ichthyophis* (2) *Bufo*
(3) Frog (4) *Salamandra*

77. If an "Axolotl larva" is placed in water containing sufficient Iodine then :-
(1) Larva will die soon
(2) Its skin pigmentation will change
(3) It will start metamorphosis
(4) It remains as usual without any change

78. Which is a balancing organ of fish?
(1) Ampulla of lorenzini
(2) Utriculus
(3) Air bladder
(4) Internal ear

79. Which of the following group of animals have a constant body temperature ?
(1) Reptiles, aves & mammalia
(2) Aves & cyclostomata
(3) Pisces & amphibia
(4) Aves & mammalia

80. Kidney in amphibians is :-
(1) Pronephric (2) Mesonephric
(3) Archaeonephric (4) Metanephric

81. Teeth in Amphibia are :-
(1) Homodont, Pleurodont & diphyodont
(2) Thecodont, heterodont & diphyodont
(3) Homodont, pleurodont & polyphyodont
(4) Homodont, thecodont & polyphyodont

82. Which group of phylum chordata has paired fins?
(1) Pisces (2) Reptilia
(3) Aves (4) Mammalia

83. The embryo is surrounded with amnion in:-
(1) Toad (2) Snake
(3) fish (4) Cockroach

84. Which is poikilothermic animal?
(1) Tortoise (2) Pigeon
(3) Penguin (4) Whale

85. Which of the following is not the feature of snakes ?
(1) Eggs (2) Limbs
(3) Scales (4) Kidney

86. Which of the following groups includes Endothermic animals (Homothermal) :-
(1) Crocodile, alligator, turtle
(2) Whale, pigeon, bat
(3) Sea-horse, dog fish, cat fish
(4) Toad, frog, salamander

87. Which bird had teeth in its beak?
(1) Kiwi (2) Ostrich
(3) Dodo (4) Archaeopteryx

88. Number of cranial nerves in a crocodile is:-
(1) 8-pairs (2) 10-pairs
(3) 12-pairs (4) 14-pairs

89. Mostly birds are:-
(1) Uricotelic and oviparous
(2) Uricotelic and viviparous
(3) Ammonotelic and oviparous
(4) Uricotelic and ovoviviparous

90. The primitive characters of Duck billed platypus suggest that it:-
(1) Is a degenerated mammals
(2) Shows the stage between aves and mammals
(3) Shows the stage between reptiles and birds
(4) Shows the stage between reptiles and mammals

91. Find out correct statement:-
(1) All birds can fly
(2) All snakes are poisonous
(3) All amphibians lay eggs in water
(4) All mammals are viviparous

92. Oviparous animal is :–
(1) *Scoliodon* (2) Viper
(3) Scorpion (4) Cobra

93. Characteristic of Corvus is:-
(1) Unisexual and sexual dimorphism absent
(2) Bisexual and sexual dimorphism absent
(3) Unisexual and sexual dimorphism present
(4) Bisexual and sexual dimorphism present

94. Which of the following is a "Lizard- bird"?
(1) *Archaeopteryx* (2) *Struthio*
(3) *Aptenodytes* (4) *Humming bird*

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95. Uropygial or preen glands occur in:-
(1) Reptiles (2) Birds
(3) Amphibians (4) Mammals

96. The flight less birds *Rhea*, Kiwi & Emu respectively belong to which countries:-
(1) South America, Newzealand & Australia
(2) Africa, Australia & Newzealand
(3) North America , Japan & Africa
(4) Australia, S. Africa & Japan

97. Which is not found in birds?
(1) Pectoral girdle (2) Pelvic girdle
(3) Hind limbs (4) Fore limbs

98. The character found only in birds is:-
(1) Toothless beak
(2) Bipedal locomotion
(3) Wings
(4) Feathers

99. Which of the following characters is not related to Aves?
(1) Homiothermy and presence of oil glands in skin
(2) Female genital organs of both sides functional
(3) Female genital organs of one sides functional
(4) Exoskeleton of feathers

100. Birds which is capable of flying backward:-
(1) Crane (2) Penguin
(3) Humming bird (4) Albatross

101. Muscular diaphragm is found in?
(1) Amphibian (2) Mammal
(3) Reptilian (4) Fish

102. Whales are included in the same taxonomic class as:-
(1) Sharks (2) Crocodile
(3) Sea horse (4) Gorilla

103. Which of the following group of vertebrates have dicondylic skull:-
(1) Amphibia & mammals
(2) Reptilia & Aves
(3) Aves & mammals
(4) Reptilia & mammals

104. Hair are not found in adult whale, its body temperature is regulated by:-
(1) Sweat glands (2) Blubber
(3) Blood circulation (4) Water

105. Two chambered heart is the feature of :-
(1) Mammals (2) Aves
(3) Amphibia (4) Pisces

106. Which of the following animals have character of both reptiles and mammals?
(1) Monotremes (2) Marsupials
(3) *Macropus* (4) *Canis*

107. An egg laying mammal is -
(1) Kangaroo (2) Platypus
(3) Koala (4) Whale

108. Presence of gills in the tadpole of frog indicates that :-
(1) Fishes evolved from frog like ancestors
(2) Frogs will have gills in future
(3) Frogs evolved from gilled ancestors
(4) Fishes were amphibious in the past

109. Hollow air filled bones (pneumatic bones) occur in :-
(1) Mammals (2) Reptiles
(3) Urodela (4) Aves

110. Which of the following character is not found in all the chordates?
(1) Diaphragm
(2) Coelom
(3) Pharyngeal gill clifts
(4) Dorsal nerve cord

111. In which of the following animal post anal tail is found
(1) Earthworm
(2) Lower invertebrate
(3) Scorpion
(4) Snake

112. In which of the following notochord is present in embryonic stage :-
(1) All chordates
(2) Some chordates
(3) Vertebrates
(4) Non chordates

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113. Axolotal larva is the name of larva of
(1) *Amphioxus* (2) Silkworm
(3) *Salamandra* (4) Round worm

114. The early stage human embryo distinctly possesses :–
(1) Gills
(2) Gill slits
(3) External ear (pinna)
(4) Eye brows

115. Most favourable land adaptation in reptiles is:
(1) Lungs
(2) Scales
(3) Moist skin
(4) Pentadactylous limbs

116. Retention of larval characters even after sexual maturity is called -
(1) Parthenogensis
(2) Ontogenesis
(3) Phyllogenesis
(4) Neoteny

117. *Ichthyophis* belongs to -
(1) Amphibia (2) Mollusca
(3) Annelida (4) Reptilia

118. Larva of *Balanoglossus* is -
(1) Muller's larva (2) Tadpole
(3) Tornaria (4) Bipinnaria larva

119. In fishes the kidney is -
(1) Pronephric
(2) Metanephric
(3) Mesonephric
(4) Nephridial

120. Air sacs connected to lungs supplement respiration in:
(1) Lung fishes (2) Birds
(3) Reptilia (4) Mammals

121. Which of the following reptile is non-poisonous ?
(1) Cobra (2) Krait
(3) Viper (4) Python

122. Tailed amphibian is :-
(1) *Icthyophis* (2) Frog
(3) *Salamandra* (4) Toad

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123. Amniota, Monocondylar, Poikilothermal animals are:-
(1) Birds (2) Amphibia
(3) Reptiles (4) Fish

124. Which one of the following is a true fish ?
(1) Cray fish (2) Jelly fish
(3) Silver fish (4) Cat fish

125. Corpus callosum is found in the brain of -
(1) Elephant (2) Pigeon
(3) Crocodile (4) Frog

126. One of the following is a very unique feature of the mammalian body –
(1) Presence of muscular diaphragm
(2) Four chambered heart
(3) Rib cage
(4) Homeothermy

127. Which is the smallest taxonomic group having cranium, vetebral column, ventral heart, pulmonary respiration and two pairs of legs ?
(1) Chordata
(2) Gnathostomata
(3) Vertebrata
(4) Tetrapoda

128. Which of the following are Anamniotes?
(1) Chondrichthyes, Osteichthyes, Amphibia
(2) Reptilia, Aves, Amphibia
(3) Amphibia, Aves, Mammals
(4) Reptilia, Mammals, Aves

129. Which is not aerial adaptation of Birds?
(1) Single ovary
(2) Pneumatic bone
(3) Gizzard
(4) Keeled sternum

130. Which of the following has no teeth in its mouth?
(1) Tortoise (2) Crocodile
(3) *Hemidactylus* (4) *Draco*

131. Feathers of birds are modified:-
(1) Epidermal scales (2) Bony scales
(3) Plates (4) Scutes

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132. Identify the animal -

(1) Ascidia (2) Salpa
(3) Amphioxus (4) Doliolum

133. Notochord is present only in larval tail of :-
(1) Urochordata (2) Cephalochordata
(3) Vertebrata (4) Protochordates

134. Vertebrates have ventral muscular heart with _____ chambers.
(1) 2 (2) 3
(3) 4 (4) all above

135. Larve of.....after metamorphosis return to the ocean.
(1) Scoliodon (2) Shark
(3) Lamprey (4) Flying fish

136. Air bladder is absent in _____
(1) Dog fish (2) Catla
(3) Rohu (4) Flying fish

137. Sea horse is _____
(1) a bird (2) a mammal
(3) an amphibian (4) a fish

EXERCISE-I (Conceptual Questions) ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	4	2	1	1	1	2	3	4	2	4	3	4	2	1	4
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	4	3	4	2	3	1	2	2	1	2	1	3	3	1	3
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Answer	4	3	1	3	3	2	1	3	1	3	3	2	1	2	3
Question	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	3	2	4	3	3	2	2	2	3	4	3	4	4	4	3
Question	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Answer	2	4	4	1	2	1	4	4	2	4	1	1	2	3	3
Question	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Answer	2	3	4	4	2	3	1	2	1	2	2	4	3	1	4
Question	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Answer	3	4	3	1	2	1	4	4	2	3	2	4	1	2	4
Question	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Answer	1	2	3	4	1	4	1	3	2	1	4	1	3	3	2
Question	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Answer	4	3	3	4	1	1	4	1	3	1	1	1	1	4	3
Question	136	137													
Answer	1	4													

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Exercise - II (Previous Year Questions) AIPMT/NEET

AIPMT 2006

1. What is common about *Trypanosoma, Noctiluca, Monocystis* and *Giardia* ?
(1) These are all parasites
(2) These are all unicellular protists
(3) They have flagella
(4) They produce spores

2. Which one of the following is a matching set of a phylum and its three examples ?
(1) Porifera : *Spongilla, Euplectella, Pennatula*
(2) Cnidaria : *Bonellia, Physalia, Aurelia*
(3) Platyhelminthes : *Planaria, Schistosoma, Enterobius*
(4) Mollusca : *Loligo, Teredo, Octopus*

3. Metameric segmentation is the characteristic of-
(1) Mollusca and Choradata
(2) Platyhelminthes and Arthropoda
(3) Echinodermata and Annelida
(4) Annelida and Arthropoda

4. Two common characters found in Centipede, Cockroach and Crab are -
(1) Book lungs and antennae
(2) Compound eyes and anal cerci
(3) Jointed legs and chitinous exoskeleton
(4) Green gland and tracheae

5. Biradial symmetry and lack of cnidoblasts are the characteristic of -
(1) *Hydra* and *Starfish*
(2) *Starfish* and Sea Anemone
(3) *Ctenoplana* and *Beroe*
(4) *Aurelia* and *Paramoecium*

6. Which one of the following has an open circulatory system ?
(A) *Octopus*
(B) *Pheretima*
(C) *Periplaneta*
(D) *Hirudinaria*
(1) A & B (2) B & C
(3) C & D (4) A & D

TG: @Chalnaayaaar

7. In which one of the following sets of animals all the four give birth to young ones ?
(1) Kangaroo, Hedgehog, Dolphin, Loris
(2) Lion, Bat, Whale, Ostrich
(3) Platypus, Penguin, Bat, *Hippopotamus*
(4) Shrew, Bat, Cat, Kiwi

AIPMT 2007

8. Which one of the following is a matching pair of a body feature and the animal possessing it?
(1) Ventral heart – Scorpion
(2) Post-anal tail – Octopus
(3) Ventral central nervous system – Leech
(4) Pharyngeal gill slits absent in embryo – *Chamaeleon*

9. What is true about *Nereis*, Scorpion, Cockroach and Silver fish ?
(1) They all belong to the same phylum
(2) They all have paired jointed appendages
(3) They all possess dorsal heart
(4) None of them is aquatic

10. Which one of the following pairs is mismatched?
(1) *Bombyx mori* – Silk
(2) *Pila globosa* – Pearl
(3) *Apis indica* – Honey
(4) *Kenia lacca* – Lac

11. Which of the following pairs are correctly matched ?

Animals	Morphological features
(A) Crocodile	4-chambered heart
(B) Sea Urchin	Parapodia
(C) *Obelia*	Metagenesis
(D) Lemur	Thecodont

(1) Only A and B (2) A, C and D
(3) B, C and D (4) Only A and D

12. What is common between parrot, platypus and kangaroo ?
(1) Ovoparity
(2) Homoiothermy
(3) Toothless jaws
(4) Functional post-anal tail

TG: @Chalnaayaaar

AIPMT 2008

13. Which one of the following is not a characteristic of phylum Annelida?
(1) Closed circulatory system
(2) Segmentation
(3) Pseudocoelom
(4) Ventral nerve cord

14. Which one of the following phyla is correctly matched with its two general characteristics?
(1) Arthropoda : Body divided into head, thorax and abdomen and respiration by tracheae
(2) Chordata : Notochord at some stage and separate anal and urinary openings to the outside
(3) Echinodermata : Pentamerous radial symmetry and mostly internal fertilization
(4) Mollusca : Normally oviparous and development through a trochophore or veliger larva

15. *Ascaris* is characterized by :
(1) absence of true coelom but presence of metamerism
(2) presence of neither true coelom nor metamerism
(3) presence of true coelom but absence of metamerism
(4) presence of true coelom and metamerism

16. Which one of the following groups of the three animals each is correctly matched with their one characteristic morphological feature?

Animals	***Morphological feature***
(1) Liver fluke, Sea anemone, Sea cucumber	– Bilateral symmetry
(2) Centipede, Prawn, Sea urchin	– Joined appendages
(3) Scorpion, Spider, Cockroach	– Ventral solid central nervous system
(4) Cockroach, Locust, *Taenia*	– Metameric segmentation

TG: @Chalnaayaaar

AIPMT 2009

17. Which one of the following groups of animals is bilaterally symmetrical and triploblastic?
(1) Sponges
(2) Coelenterates (Cnidarians)
(3) Aschelminthes (round worms)
(4) Ctenophores

18. *Peripatus* is a connecting link between :-
(1) Coelenterata and Porifera
(2) Ctenophora and Platyhelminthis
(3) Mollusca and Echinodermata
(4) Annelida and Arthropoda

19. Which one of the following pairs of animals are 'jawless fishes' ?
(1) Guppies and hag fishes
(2) Lampreys and eels
(3) Mackerals and Rohu
(4) Lampreys and hag fishes

AIPMT (Pre.) 2010

20. One example of animals having a single opening to the outside that serves both as mouth as well as anus is :-
(1) *Fasciola*
(2) *Octopus*
(3) *Asterias*
(4) *Herdmania*

21. Which one of the following statement about all the four of *Spongilla*, Leech, Dolphin and Penguin is correct ?
(1) All are bilaterally symmetrical
(2) Penguin is homoiothermic while the remaining three are poikilothermic
(3) Leech is a fresh water form while all others are marine
(4) *Spongilla* has special collared cells called choanocytes, not found in the remaining three.

22. Which one of the following animals are triploblastic?
(1) Corals (2) Flat worms
(3) Sponges (4) Ctenophores

23. Which one of the following statement about certain given animals is correct ?

(1) Flat worms (Platyhelminthes) are coelomates

(2) Round worms (Aschelminthes) are pseudocoelomates

(3) Molluscs are acoelomates

(4) Insects are pseudocoelomates

AIPMT (Mains) 2010

24. Crocodile and Penguin are similar to Whale and Dogfish in which one of the following features ?

(1) Lay eggs and guard them till they hatch

(2) Possess bony skeleton

(3) Have gill slits at some stage

(4) Possess a solid single stranded central nervous system

AIPMT (Pre.) 2011

25. Which one of the following groups of animals is correctly matched with its one characteristic feature without even a single exception ?

(1) Reptilia : possess 3-chambered heart with one incompletely divided ventricle

(2) Chordata : possess a mouth provided with an upper and a lower jaw

(3) Chondrichthyes : possess cartilaginous endoskeleton

(4) Mammalia : give birth to young ones

26. Which one of the following animals is correctly matched with its particular named taxonomic category ?

(1) Tiger – *tigris*, the species

(2) Cuttlefish – Mollusca, a class

(3) Humans – Primata, the family

(4) Housefly – *Musca*, an order

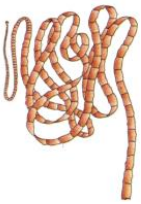
TG: @Chalnaayaaar

27. In which one of the following the genus name, its two character and its class/phylum are correctly matched?

Genus name	Two characters	Class/ Phylum
(1) *Ascaris*	(a) Body segmented (b) Males and females distinct	Annelida
(2) *Salamendra*	(a) A tympanum represents ear (b) Fertilization is external	Amphibia
(3) *Pteropus*	(a) Skin prossesses hair (b) Oviparous	Mammalia
(4) *Aurelia*	(a) Cnidoblasts (b) Organ level of organization	Coelenterata

AIPMT (Mains) 2011

28. The figure shows four animals (a), (b), (c) and (d). Select the correct answer with respect to a common characteristics of two of these animals.

(a)  (b)

(c) (d)

(1) (c) and (d) have a true coelom

(2) (a) and (d) respire mainly through body wall

(3) (b) and (c) show radial symmetry

(4) (a) and (b) have cnidoblasts for self defence.

TG: @Chalnaayaaar

AIPMT (Pre.) 2012

29. In which one of the following, the genus name, its two characters and its phylum are **not correctly** matched, whereas the remaining three are correct ?

	Genus name	Two characters	Phylum
(1)	*Sycon*	(a) Pore bearing (b) Canal system	Porifera
(2)	*Periplaneta*	(a) Jointed appendages (b) Chitinuous exoskeleton	Arthropoda
(3)	*Pila*	(a) Body segmented (b) Mouth with Radula	Mollusca
(4)	*Asterias*	(a) Spiny skinned (b) Water vascular system	Echino-dermata

AIPMT (Mains) 2012

30. Which one of the following organisms is scientifically correctly named, correctly printed according to the International Rules of Nomenclature and correctly described?

(1) *Felis tigris* - The Indian tiger, well protected in Gir forests.

(2) *E.coli* - Full name *Entamoeba coli*, a commonly occuring bacterium in human intestine.

(3) *Musca domestica* - The common house lizard, a reptile.

(4) *Plasmodium falciparum* - A protozoan pathogen causing the most serious type of malaria.

31. Which one of the following categories of animals, is correctly described with no single exception in it?

(1) All sponges are marine and have collared cells

(2) All mammals are viviparous and possess diaphragm for breathing

(3) All reptiles possess scales, have a three chambered heart and are cold blooded (poikilothermal)

(4) All bony fishes have four pairs of gills and an operculum on each side

32. Which one of the following pairs of animals are similar to each other pertaining to the feature stated against them?

(1) *Ascaris* and *Ancylostoma* – Metameric segmentation

(2) Sea horse and Flying fish – Cold blooded (poikilothermal)

(3) *Pteropus* and *Ornithorhyncus* – Viviparity

(4) Garden lizard and Crocodile – Three chambered heart

NEET-UG 2013

33. One of the representatives of Phylum Arthropoda is :

(1) flying fish (2) cuttle fish

(3) silver fish (4) puffer fish

34. Which group of animals belong to the same phylum?

(1) Sponge, Sea anemone, Starfish

(2) Malarial parasite, *Amoeba*, Mosquito

(3) Earthworm, Pinworm, Tapeworm

(4) Prawn, Scorpion, *Locusta*

35. Infection of *Ascaris* usually occurs by :

(1) mosquito bite

(2) drinking water containing eggs of *Ascaris*

(3) eating imperfectly cooked pork.

(4) Tse-tse fly

36. Which of the following are correctly matched with respect to their taxonomic classification?

(1) Spiny anteater, sea urchin, sea cucumber –Echinodermata

(2) Flying fish, cuttlefish, silverfish – Pisces

(3) Centipede, millipede, spider, scorpion – Insecta

(4) House fly, butterfly, tsetsefly, silverfish – Insecta

TG: @Chalnaayaaar

37. Match the name of the animal (column I), with one characteristics (column II), and the phylum/ class (column III) to which it belongs :

	Column I	Column II	Column III
(1)	*Adamsia*	radially symmetrical	Porifera
(2)	*Petromyzon*	ectoparasite	Cyclostomata
(3)	*Ichthyophis*	terrestrial	Reptilia
(4)	*Limitlus*	Body covered by chitinous exoskeleton	Pisces

AIPMT 2014

38. Which one of the following living organisms completely *lacks* a cell wall?
(1) Cyanobacteria
(2) Sea – fan *(Gorgonia)*
(3) *Saccharomyces*
(4) Blue–green algae

39. Select the Taxon mentioned that represents both marine and fresh water species :-
(1) Echinoderms
(2) Ctenophora
(3) Cephalochordata
(4) Cnidaria

40. *Planaria* possess high capacity of :-
(1) Metamorphosis
(2) Regeneration
(3) Alternation of generation
(4) Bioluminescence

41. A marine cartilaginous fish that can produce electric current is :-
(1) *Pristis* (2) *Torpedo*
(3) *Trygon* (4) *Scoliodon*

AIPMT 2015

42. Which of the following animals is **not** viviparous?
(1) Elephant (2) Platypus
(3) Whale (4) Flying fox (Bat)

TG: @Chalnaayaaar

43. Which of the following represents the correct combination without any exception?

	Characteristics	Class
(1)	Mouth ventral, gills without operculum; skin with placoid scales; persistent notochord	Chondrichthyes
(2)	Sucking and circular mouth; jaws absent, integument without scales; paired appendages	Cyclostomata
(3)	Body covered with feathers; skin moist and glandular; fore-limbs form wings; lungs with air sacs	Aves
(4)	Mammary gland; hair on body; pinnae; two pairs of Limbs	Mammalia

44. The active form of *Entamoeba histolytica* feeds upon:
(1) mucosa and submucosa of colon only
(2) food in intestine
(3) blood only
(4) erythrocytes; mucosa and submucosa of colon

45. Which of the following endoparasites of humans does show viviparity ?
(1) *Enterobius vermicularis*
(2) *Trichinella spiralis*
(3) *Ascaris lumbricoides*
(4) *Ancylostoma duodenale*

Re-AIPMT 2015

46. Metagenesis refers to :
(1) Presence of a segmented body and parthenogenetic mode of reproduction
(2) Presence of different morphic forms
(3) Alternation of generation between asexual and sexual phases of an organism
(4) Occurrence of a drastic change in form during post-embryonic development

47. Which one of the following animals has two separate circulatory pathways ?
(1) Shark (2) Frog
(3) Lizard (4) Whale

TG: @Chalnaayaaar

48. Body having meshwork of cells, internal cavities lined with food filtering flagellated cells and indirect development are the characteristics of phylum :
(1) Protozoa (2) Coelenterata
(3) Porifera (4) Mollusca

49. A jawless fish, which lays eggs in fresh water and whose ammocoetes larvae after metamorphosis return to the ocean is :
(1) *Petromyzon* (2) *Eptatretus*
(3) *Myxine* (4) *Neomyxine*

NEET-I 2016

50. Which of the following characteristic features always holds true for the corresponding group of animals?

(1)	Cartilaginous endoskeleton	Chondrichthyes
(2)	Viviparous	Mammalia
(3)	Possess a mouth with an upper and a lower jaw	Chordata
(4)	3 - chambered heart with one incompletely divided ventricle	Reptilia

51. Which one of the following characteristics is **not** shared by birds and mammals ?
(1) Ossified endoskeleton
(2) Breathing using lungs
(3) Viviparity
(4) Warm blooded nature

NEET-II 2016

52. Choose the **correct** statement.
(1) All reptiles have a three–chambered heart.
(2) All pisces have gills covered by an operculum.
(3) All mammals are viviparous.
(4) All cyclostomes do not possess jaws and paired fins.

TG: @Chalnaayaaar

NEET(UG) 2017

53. An important characteristic that Hemichordates share with Chordates is :
(1) Ventral tubular nerve cord
(2) Pharynx with gill slits
(3) Pharynx without gill slits
(4) Absence of notochord

54. Which among these is the correct combination of aquatic mammals ?
(1) Dolphins, Seals, *Trygon*
(2) Whales, Dolphins, Seals
(3) *Trygon*, Whales, Seals
(4) Seals, Dolphins, Sharks

55. In case of poriferans, the spongocoel is lined with flagellated cells called:
(1) oscula
(2) choanocytes
(3) mesenchymal cells
(4) ostia

NEET(UG) 2018

56. Which of the following animals does ***not*** undergo metamorphosis ?
(1) Earthworm (2) Tunicate
(3) Moth (4) Starfish

57. Identify the vertebrate group of animals characterized by crop and gizzard in its digestive sytstem.
(1) Amphibia (2) Reptilia
(3) Aves (4) Osteichthyes

58. Which one of these animals is ***not*** a homeotherm?
(1) *Macropus*
(2) *Chelone*
(3) *Camelus*
(4) *Psittacula*

59. Ciliates differ from all other protozoans in
(1) using flagella for locomotion
(2) having a contractile vacuole for removing excess water
(3) using pseudopodia for capturing prey
(4) having two types of nuclei

NEET(UG) 2019

60. Match the following organisms with their respective characteristics :-

(a) *Pila*	(i) Flame cells
(b) *Bombyx*	(ii) Comb plates
(c) *Pleurobrachia*	(iii) Radula
(d) *Taenia*	(iv) Malpighian tubules

Select the **correct** option from the following:-

	(a)	**(b)**	**(c)**	**(d)**
(1)	(iii)	(ii)	(i)	(iv)
(2)	(iii)	(iv)	(ii)	(i)
(3)	(ii)	(iv)	(iii)	(i)
(4)	(iiii)	(ii)	(iv)	(i)

61. Consider following features:

(a) Organ system level of organisation

(b) Bilateral symmetry

(c) True coelomates with segmentation of body

Select the **correct** option of animal groups which possess all the above characteristics.

(1) Annelida, Arthropoda and Chordata

(2) Annelida, Arthropoda and Mollusca

(3) Arthropoda , Mollusca and Chordata

(4) Annelida, Mollusca and Chordata

NEET(UG) 2019 (Odisha)

62. Match the following genera with their respective phylum:

(a) *Ophura*	(i) Mollusca
(b) *Physalia*	(ii) Platyhelminthes
(c) *Pinctada*	(iii) Echinodermata
(d) *Planaria*	(iv) Coelenterata

Select the correct option:

(1) (a)-(iv), (b)-(i), (c)-(iii), d-(ii)

(2) (a)-(iii), (b)-(iv), (c)-(i), d-(ii)

(3) (a)-(i), (b)-(iii), (c)-(iv), d-(ii)

(4) (a)-(iii), (b)-(iv), (c)-(ii), d-(i)

63. Which of the following animals are true coelomates with bilateral symmetry?

(1) Adult Echinoderms

(2) Aschelminthes

(3) Platyhelminthes

(4) Annelids

TG: @Chalnaayaaar

NEET(UG) - 2020

64. Match the following columns and select the **correct** option.

Column -I	**Column -II**
(a) 6 -15 pairs of gill slits	(i) *Trygon*
(b) Heterocercal caudal fin	(ii) Cyclostomes
(c) Air Bladder	(iii) Chondrichthyes
(d) Poison sting	(iv) Osteichthyes

	(a)	**(b)**	**(c)**	**(d)**
(1)	(i)	(iv)	(iii)	(ii)
(2)	(ii)	(iii)	(iv)	(i)
(3)	(iii)	(iv)	(i)	(ii)
(4)	(iv)	(ii)	(iii)	(i)

65. Which of the following statements are true for the phylum-Chordata ?

(a) In Urochordata notochord extends from head to tail and it is present throughout their life.

(b) In Vertebrata notochord is present during the embryonic period only.

(c) Central nervous system is dorsal and hollow.

(d) Chordata is divided into 3 subphyla : Hemichordata, Tunicata and Cephalochordata.

(1) (b) and (c) (2) (d) and (c)

(3) (c) and (a) (4) (a) and (b)

66. Match the following columns and select the **correct** option.

Column-I	**Column-II**
(a) Gregarious, polyphagous pest	(i) *Asterias*
(b) Adult with radial symmetry and larva with bilateral symmetry	(ii) Scorpion
(c) Book lungs	(iii) *Ctenoplana*
(d) Bioluminescence	(iv) *Locusta*

	(a)	**(b)**	**(c)**	**(d)**
(1)	(ii)	(i)	(iii)	(iv)
(2)	(i)	(iii)	(ii)	(iv)
(3)	(iv)	(i)	(ii)	(iii)
(4)	(iii)	(ii)	(i)	(iv)

TG: @Chalnaayaaar

67. Bilaterally symmetrical and acoelomate animals are exemplified by:
(1) Annelida (2) Ctenophora
(3) Platyhelminthes (4) Aschelminthes

NEET (UG)-2020 (COVID-19)

68. Which of the following options does correctly represent the characteristic features of phylum Annelida ?
(1) Triploblastic, unsegmented body and bilaterally symmetrical.
(2) Triploblastic, segmented body and bilaterally symmetrical.
(3) Triploblastic, flattened body and acoelomate condition.
(4) Diploblastic, mostly marine and radially symmetrical.

69. Match the following group of organisms with their respective distinctive characteristics and select the correct option :

Organisms	Characteristics
(a) Platyhelminthes	(i) Cylindrical body with no segmentation
(b) Echinoderms	(ii) Warm blooded animals with direct development
(c) Hemichordates	(iii) Bilateral symmetry with incomplete digestive system
(d) Aves	(iv) Radial symmetry with Indirect development

(1) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
(2) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
(3) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
(4) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)

70. All vertebrates are chordates but all chordates are not vertebrates, why ?
(1) Notochord is replaced by vertebral column in adult of some chordates.
(2) Ventral hollow nerve cord remains throughout life in some chordates.
(3) All chordates possess vertebral column.
(4) All chordates possess notochord throughout their life.

71. Match the following columns and select the correct option :

Column - I	Column - II
(a) *Aptenodytes*	(i) Flying fox
(b) *Pteropus*	(ii) Angel fish
(c) *Pterophyllum*	(iii) Lamprey
(d) *Petromyzon*	(iv) Penguin

(1) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)
(2) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
(3) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
(4) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

NEET (UG) - 2021

72. Read the following statements.
(a) Metagenesis is observed in Helminths.
(b) Echinoderms are triploblastic and coelomate animals.
(c) Round worms have organ-system level of body organization.
(d) Comb plates present in ctenophores help in digestion.
(e) Water vascular system is characteristic of echinoderms.
Choose the **correct** answer from the options given below.
(1) (c), (d) and (e) are correct
(2) (a), (b) and (c) are correct
(3) (a), (d) and (e) are correct
(4) (b), (c) and (e) are correct

73. Match **List - I** with **List - II.**

List-I		List-II	
(a)	Metamerism	(i)	Coelenterata
(b)	Canal system	(ii)	Ctenophora
(c)	Comb plates	(iii)	Annelida
(d)	Cnidoblasts	(iv)	Porifera

Choose the **correct** answer from the options given below.

	(a)	(b)	(c)	(d)
(1)	(iv)	(iii)	(i)	(ii)
(2)	(iii)	(iv)	(i)	(ii)
(3)	(iii)	(iv)	(ii)	(i)
(4)	(iv)	(i)	(ii)	(iii)

TG: @Chalnaayaaar

74. Match the following:

List-I		List-II	
(a)	*Physalia*	(i)	Pearl oyster
(b)	*Limulus*	(ii)	Portuguese Man of War
(c)	*Ancylostoma*	(iii)	Living fossil
(d)	*Pinctada*	(iv)	Hookworm

Choose the **correct** answer from the options given below.

	(a)	**(b)**	**(c)**	**(d)**
(1)	(ii)	(iii)	(i)	(iv)
(2)	(iv)	(i)	(iii)	(ii)
(3)	(ii)	(iii)	(iv)	(i)
(4)	(i)	(iv)	(iii)	(ii)

75. Which one of the following organisms bears hollow and pneumatic long bones?

(1) *Neophron* (2) *Hemidactylus*
(3) *Macropus* (4) *Ornithorhynchus*

NEET (UG) - 2022

76. Nitrogenous waste is excreted in the form of pellet or paste by :

(1) Salamandra
(2) Hippocampus
(3) Pavo
(4) Ornithorhynchus

77. Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R).**

Assertion (A) : All vertebrates are chordates but all chordates are not vertebrates.

Reason (R) : Notochord is replaced by vertebral column in the adult vertebrates.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

(1) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
(2) **(A)** is correct but **(R)** is not correct
(3) **(A)** is not correct but **(R)** is correct
(4) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**

78. In which of the following animals, digestive tract has additional chambers like crop and gizzard ?

(1) *Bufo, Balaenoptera, Bangarus*
(2) *Catla, Columba, Crocodilus*
(3) *Pavo, Psittacula, Corvus*
(4) *Corvus, Columba, Chameleon*

Re-NEET (UG) - 2022

79. Select the **incorrect** statements with respect to cyclostomes:

(a) They lack scales and paired fins.
(b) They have circular mouth with jaws.
(c) They bear 6-15 pairs of gills
(d) They migrate to deep sea for spawning.

Choose **the most appropriate answer** from the options given below.

(1) (a) and (b) only
(2) (b) and (c) only
(3) (b) and (d) only
(4) (a) and (d) only

80. Which of the following animals has three chambered heart?

(1) *Scoliodon* (2) *Hippocampus*
(3) *Chelone* (4) *Pteropus*

TG: @Chalnaayaaar

TG: @Chalnaayaaar

EXERCISE-II (Previous Year Questions) ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	2	4	4	3	3	3	1	3	3	2	2	2	3	4	2
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	3	3	4	4	1	4	2	2	3	3	1	2	1	3	4
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Answer	4	2	3	4	2	4	2	2	4	2	2	2	1	4	2
Question	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	3	4	3	1	1	3	4	2	2	2	1	3	2	4	2
Question	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Answer	1	2	4	2	1	3	3	2	1	1	3	4	3	3	1
Question	76	77	78	79	80										
Answer	3	4	3	3	3										

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Exercise - III Master Your Understanding

EXERCISE-III (A) NCERT BASED QUESTIONS

1. Which one of the following is a radially symmetrical, blind sac body plan and diploblastic animal?
(1) *Spongilla* (2) *Euspongia*
(3) *Asterias* (4) *Physalia*

2. Which one is not a platyhelminthes?
(1) Tapeworm (2) Liver fluke
(3) *Planaria* (4) Hookworm

3. Consider the following statements :-
(A) Protochordates are exclusively marine
(B) In cephalochordates, Notochord extends from head to tail region.
(C) In urochordates, Notochord is present only in larval tail.
(D) Cranium and vertebral column are bony in cyclostomates.
Which of the above statement is/are correct?
(1) A alone (2) B, C and D
(3) A, B and C (4) All

4. Consider the following characteristic of fishes:-
(A) They have four pairs of gills which are covered by an operculum.
(B) They have air bladder which regulates buoyancy
(C) They are mostly viviparous and development is direct
(D) Their body is streamlined and covered with cycloid/ctenoid scales
Which of the above characteristics regarding bony fishes are correct?
(1) A, B and C (2) C and D
(3) A, B and D (4) B alone

5. Which of the following animal is radially symmetrical but has a bilaterally symmetrical larva?
(1) *Ascaris* (Round worm)
(2) *Nereis* (Ring worm)
(3) *Pila* (Apple snail)
(4) *Asterias* (Star fish)

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6. Identified the correct statement from the following with reference to Amphibians :-
(A) They have internal fertilisation and development is direct.
(B) Amphibian skin is moist and without scales
(C) Their body is divisible into head and trunk
(D) They have three chambered heart
Select the correct answer :-
(1) A and D (2) A and B
(3) B, C and D (4) D alone

7. Which of the following pairs are correctly matched?
(A) Poikilothemous - Birds and mammals
(B) Agnatha - *Petromyzon* and *Myxine*
(C) Tunicates - *Ascidia, Salpa* and *Doliolum*
(D) Cartilaginous fishes - *Betta* and *Labeo*
(1) A and B (2) A, B and C
(3) B and C (4) A, B and D

8. Water vascular system is found in :-
(1) Porifera (2) Echinodermata
(3) Mollusca (4) Elasmobranch

9. Match the column :-

(a) *Dentalium*	(i) Brittle star
(b) *Ophiura*	(ii) Cuttle fish
(c) *Antedon*	(iii) Sea Urchin
(d) *Echinus*	(iv) Tusk shell
(e) *Sepia*	(v) Sea lily

(1) a-(iv), b-(i), c-(iv), d-(ii), e-(iii)
(2) a-(iv), b-(i), c-(v), d-(iii), e-(ii)
(3) a-(i), b-(iv), c-(v), d-(iii), e-(ii)
(4) a-(iv), b-(i), c-(iii), d-(v), e-(ii)

10. True coelom and metameric segmentation in the body is first observed in which of the following phylum
(1) Platyhelminthes
(2) Aschelminthes
(3) Annelida
(4) Arthropoda

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11. Read the following statements (a to e) carefuly :-
(a) Triploplastic
(b) Bilateral symmetric
(c) Organ system organisation
(d) Pseudocoelomate
(e) Metameric segmentation
Which of the above statement(s) is/are correct for phylum Aschelminthyes
(1) a and b only (2) a, b, c and e
(3) a, b, c and d (4) a, b, c, d and e

12. Which of the following coelenterate exist in both forms polyp and medusa and exhibit metagenesis?
(1) *Hydra* (2) *Adamsia*
(3) *Obelia* (4) *Gorgonia*

13. Mark the incorrectly matched pair
(1) *Petromyzon* - Body devoid of scales and paired fins
(2) *Scoliodon* - Operculum present but air bladder is absent
(3) *Exocoetus* - Heart two chamered with sinus venosus
(4) *Rana* - Cold blooded with 10 pairs of cranial nerves and mesonephric kidneys

14. Match list 'A' and List 'B' correctly and find your answer from the code given below :-

List-A (Animal)	**List-B (Common name)**
(i) *Physalia*	(A) Brain coral
(ii) *Pennatula*	(B) Sea fan
(iii) *Gorgonia*	(C) Sea pen
(iv) *Meandrina*	(D) Portuguese man of war

Code :
(1) (i)-A, (ii)-B, (iii)-C, (iv)-D
(2) (i)-D, (ii)-C, (iii)-B, (iv)-A
(3) (i)-C, (ii)-D, (iii)-B, (iv)-A
(4) (i)-D, (ii)-C, (iii)-A, (iv)-B

15. Which of the following is gregarious pest?
(1) Bed bug (2) Rat
(3) Cockroach (4) Locusta

16. Pick the odd pair out :-
(1) Cellular level : Porifera
(2) Tissue level : Aschelminthes
(3) Organ level : Platyhelminthes
(4) Organ system level : Annelida

17. Select the group of organisms given below those have diploblastic members only :-
(1) *Ctenoplana, Taenia, Fasciola*
(2) *Aurelia, Physalia, Meandrina*
(3) *Wuchereria, Culex, Limulus*
(4) *Aedes, Ascaris, Hydra*

18. Fresh water sponge is :-
(1) *Spongilla* (2) *Scypha*
(3) *Euspongia* (4) *Leucosolenia*

19. The symmetry found in an animal which can be divided into indentical left and right halves in only one plane is:-
(1) Spherical (2) Bilateral
(3) Radial (4) Biradial

20. Select the pseudocoelomates from the list of organisms given below :-
(1) *Ascaris, Fasciola, Taenia*
(2) *Culex, Locusta, Limulus*
(3) *Wuchereria, Ascaris, Ancylostoma*
(4) *Nereis, Hirudinaria, Wuchereria*

21. Which of the following pairs of animals comprise 'Combjellies' ?
(1) *Balanoglossus* and *Saccoglossus*
(2) *Pleurobranchia* and *Ctenoplana*
(3) Sea anemone and sea pen
(4) Sea lily and brittle star

22. Which one of the following pairs of animals comprise 'Cartilaginous fishes'?
(1) *Labeo* and *Catla*
(2) *Pterophyllum* and *Scoliodon*
(3) *Pristis* and *Carcharodon*
(4) *Petromyzon* and *Myxine*

23. Which of the following fishes is also known as "Great white shark'?
(1) *Pristis* (2) *Trygon*
(3) *Clarias* (4) *Carcharodon*

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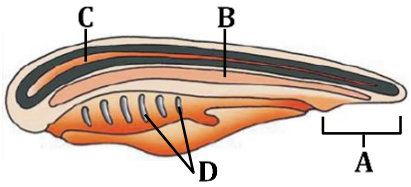
24. A schematic representation of a chordate's embryo is shown in the above figure.



The structures maked **A, B, C** and **D** are respectively :-

(1) Notochord, Nerve cord, Intestine and gill slits

(2) Postanal part, Gill slits, Nerve cord and Notochord

(3) Postanal part, nerve cord, Notochord and Gill

(4) Post anal part, Notochord, Nervecord and Gill slits.

25. In which one of the following protochordates notochord present only in the tail of larva ?

(1) *Ascidia* (2) *Balanoglossus*

(3) *Myxine* (4) *Branchiostoma*

26. In which of the following group notochord present in whole life?

(1) Hemichordata

(2) Urochordata

(3) Cephalochordata

(4) Vertebrata

27. Match the column-I with the column-II and find out the correct answer :

Column-I	**Colum-II**
(A) Spongocoel	(i) Arthropoda
(B) Dorso-ventrally flattened body	(ii) Cnidaria
(C) Coelenteron cavity	(iii) Porifera
(D) Chitinous exoskeleton	(vi) Platyhelminthes

(1) A-iii, B-iv, C-i, D-ii

(2) A-iv, B-iii, C-ii, D-i

(3) A-iii, B-iv, C-ii, D-i

(4) A-ii, B-iv, C-iii, D-i

28. Which of the following is a matching pair ?

(1) *Ophiura* - Sea lily

(2) *Octopus* - Cuttle fish

(3) *Torpedo* - Electric ray

(4) *Aptenodytes* - Ostrich

29. Which one is not the character of Osteichthyes?

(1) Terminal mouth

(2) Gills with operculum

(3) Body covered by placoid scales

(4) Air bladder regulate buoyancy.

30. Which one of the following pairs is not correcly matched?

(1) *Choetopleura* - Chiton

(2) *Ascaris* - Round worm

(3) *Wuchereria* - Filaria worm

(4) *Enterobias* - Hook worm

EXERCISE-III(B) (ANALYTICAL QUESTIONS)

31. The greatest evolutionary change that enabled the land vertebrates to be completely free from water, was the development of -

(1) four appendages

(2) lungs

(3) cleidoic eggs

(4) four chambered heart

32. A mammal which completely lives in water is?

(1) Bear (2) Camel

(3) Whale (4) Rhinoceros

33. Which of the following does not make a nest of its own ?

(1) Crow

(2) Parrot

(3) Cuckoo (Koel)

(4) Sparrow

34. How many in the given examples of animals are Coelentrates?

Physalia, Obelia, Plannaria, Pennatula, Gorgonia, Pleurobrachia, Meandrina and *Nereis*

(1) Three (2) Four

(3) Five (4) Six

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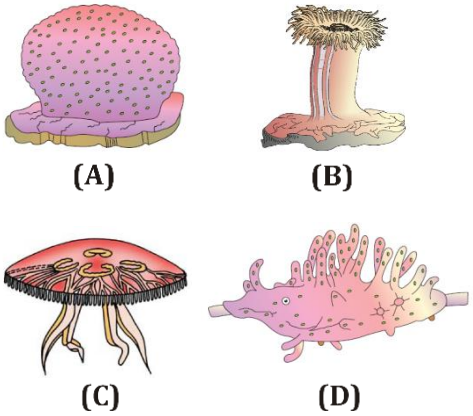
35. Identify the following four animals (A, B, C and D) given below. Which one of these is not correctly identified in the option given along with its correct taxonomic group and their common name ?



Options :-

	Fig.	Name of animal	Taxonomic group	Common Name
(1)	B	*Adamsia*	Ctenophora	Star coral
(2)	D	*Spongilla*	Porifera	Fresh water sponge
(3)	C	*Aurelia*	Coelenterata	Jelly fish
(4)	A	*Enspongia*	Porifera	Bath sponge

36. How many organism are releated with Echinodermata phylum?
Star fish, Sea-urchin, Sea-lily, Sea-mouse, Sea-hare, Sea-cucumber, Brittle star, Sea-potato, Sea-squirt, Sea-fan, Sea-pen
(1) 4 (2) 5
(3) 6 (4) 7

37. Which of the following unicellular organism has a macronucleus for trophic function and one or more micronuclei for reproduction?
(1) *Trypanosoma* (2) *Paramoecium*
(3) *Euglena* (4) *Amoeba*

38. Which of the following shows the sexual dimorphism?
(1) *Hydra* & *Ascaris*
(2) *Hydra* & *Macaca*
(3) *Ascaris* & *Pheretima*
(4) *Ascaris* & *Macaca*

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39. Which one of the following features is common in - silverfish, scorpion, dragonfly and prawn ?
(1) Three pairs of legs and segmented body
(2) Chitinous cuticle and two pairs of antennae
(3) Jointed appendages and chitinous exoskeleton
(4) Cephalothorax involves

40. In which animal nerve cell is present but brain is absent?
(1) Sponge (2) Earthworm
(3) Cockroach (4) *Hydra*

41. Which group of vertebrates have characteristic features the presence of feathers and most of them can fly ?
(1) Mammals (2) Fishes
(3) Reptiles (4) Birds

42. Which class name refers to their creeping or crawling mode of locomotion (Latin, repere or reptum, to creep or crawl)?
(1) Aves (2) Mammalia
(3) Amphibia (4) Reptilia

43. Which one of the following is not a living fossil ?
(1) *Peripatus*
(2) King crab
(3) *Sphenodon*
(4) *Archaeopteryx*

44. Body is divisible into head and trunk in?
(1) Lizard (2) Frog
(3) Peacock (4) Platypus

45. The evidence for the origin of birds from reptiles is the presence in them of -
(1) feathers (2) scales
(3) claws (4) hairs

46. In which one of the following groups all animals are hermaphrodite?
(1) *Hydra, Ascaris, Pheretima*
(2) *Hydra, Homo sapiens*, Leech
(3) Tapeworm, Toad, Starfish
(4) *Hydra*, Leech, Tapeworm

47. Given below are two statements:
Statement-I : The most distinct feature of echinoderms is the presence of water canal system.
Statement-II : Echinodermata exhibits radial or bilateral symmetry depending on the stage.
In the light of the above statements, choose the most appropriate answer from the options given below:
(1) Both Statement-I and II are incorrect.
(2) Statement-I is correct but statement-II is incorrect.
(3) Statement-I is incorrect and Statement-II is correct.
(4) Both Statement-I and Statement-II are correct.

48. Given below are two statements:
Statement-I : In cephalochordate notochord is persistent throughout their life.
Statement-II : Branchiostoma is an example of cephalochordata
In the light of the above statements, choose the most appropriate answer from the options given below:
(1) Both Statement-I and II are incorrect.
(2) Statement-I is correct but statement-II is incorrect.
(3) Statement-I is incorrect and Statement-II is correct.
(4) Both Statement-I and Statement-II are correct.

49. Given below are two statements:
Statement-I : All chordates are vertebrates but all vertebrates are not chordates.
Statement-II : Sub phylum urochordata and cephalochordate are often referred as protochordata.
In the light of the above statements, choose the most appropriate answer from the options given below:
(1) Both Statement-I and II are incorrect.
(2) Statement-I is correct but statement-II is incorrect.
(3) Statement-I is incorrect and Statement-II is correct.
(4) Both Statement-I and Statement-II are correct.

50. Given below are two statements; one is labelled as Assertion (A) and the other is labelled as Reason(R).
Assertion (A) : Water vascular system helps in locomotion, capture and transport of food and respiration.
Reason (R) : The presence of water vascular system is most unique feature of porifera.
In the light of the above statements, choose the correct answer from the options given below :
(1) Both (A) & (R) are correct but (R) is the not correct explanation of (A).
(2) (A) is correct but (R) is not correct.
(3) (A) is not correct but (R) is correct.
(4) Both (A) & (R) are correct and (R) is the correct explanation of (A).

EXERCISE-III ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	4	4	3	4	4	3	3	2	2	3	3	3	2	2	4
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	2	2	1	2	3	2	3	4	4	1	3	3	3	3	4
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Answer	3	3	3	3	1	2	2	4	3	4	4	4	4	2	2
Question	46	47	48	49	50										
Answer	4	3	4	3	2										

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